

9th Edition of International Conference on

Dentistry and Oral Health

September 02-04, 2024

Madrid, Spain | Hybrid Event



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INDEX	Page No
Keynote Speakers	6
Speakers	7
Welcome Messages	9
About Magnus Group	11
About ICDO 2024	12
About CE Accreditation	13
Table of Contents	14
Keynote Presentations	19
Oral Presentations	35

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02-04

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BOOK OF
ABSTRACTS

Keynote Speakers



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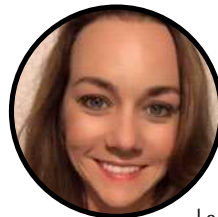
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Lacy Walker
Shared Hygiene, LLC, Germany

*Thank You
All...*

Speakers



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Yeganeh Arian
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Thank You
All...

Welcome Message



David Gillam

Queen Mary University of London, United Kingdom

Dear Attendees, Presenters, Organizing Committee and Distinguished Guests

The invitation to write this welcome message is both an honour and a privilege and as such I am very grateful to be the Organizing Committee of ICDO 2024. I would like to warmly welcome you to the 9th Edition of International Conference on Dentistry and Oral Health which will be held in the historical city of Madrid or alternatively on-line (if you are unable to present in-person). With the theme of this year's conference Observing Recent Advances and Leveraging Innovation in Dentistry, you will have the opportunity to listen to well-known speakers on a wide range of topics over the course of the conference. There will also be an opportunity for colleagues to present their area of expertise to their colleagues, which in turn will help foster cooperation between colleagues across the research world. I hope that you will not only enjoy the conference but also establish links for future research as well as foster friendships that will endure for years to come.

Welcome Message




Yasser Khaled

Marquette University, United States

Dear Conference Attendees,

It is an honor and great pleasure to write a few welcome notes towards International Conference on Dentistry and Oral Health. We are living in the era of ever-escalating national crisis of oral health problems and its related comorbidities in both adults and youth. A multi-disciplinary approach linking basic, clinical and public health research is desperately necessitated to advance our understanding of the growing pandemic of oral health issues. It will be a great opportunity for the participants from all around the world including young and senior researchers, scientists, clinicians and academicians to gain knowledge with the up-to-date research in oral and dental care.

ABOUT MAGNUS GROUP




Magnus Group, a distinguished scientific event organizer, has been at the forefront of fostering knowledge exchange and collaboration since its inception in 2015. With a steadfast commitment to the ethos of Share, receive, grow, Magnus Group has successfully organized over 200 conferences spanning diverse fields, including Healthcare, Medical, Pharmaceuticals, Chemistry, Nursing, Agriculture, and Plant Sciences.

The core philosophy of Magnus Group revolves around creating dynamic platforms that facilitate the exchange of cutting-edge research, insights, and innovations within the global scientific community. By bringing together experts, scholars, and professionals from various disciplines, Magnus Group cultivates an environment conducive to intellectual discourse, networking, and interdisciplinary collaboration.

Magnus Group's unwavering dedication to organizing impactful scientific events has positioned it as a key player in the global scientific community. By adhering to the motto of Share, receive, grow, Magnus Group continues to contribute significantly to the advancement of knowledge and the development of innovative solutions in various scientific domains.

ABOUT ICDO 2024



Magnus Group invites you to the 9th Edition of the International Conference on Dentistry and Oral Health (ICDO 2024), happening from September 02-04, 2024. This hybrid event, held both in the vibrant city of Madrid, Spain and virtually, centers on the theme ORAL: Observing Recent Advances and Leveraging Innovation in Dentistry. The conference will focus on modern dental practices and oral healthcare, aligning with global health goals.

ICDO 2024 will be a key platform for collaboration, bringing together researchers, scientists, dentists, and industry experts. The event will foster the exchange of innovative ideas, expertise, and the building of professional networks, encouraging co-development of policies and partnerships among dental professionals and stakeholders.

With an agenda packed with keynote addresses, oral presentations, poster sessions, and panel discussions, attendees can look forward to an inspiring experience that drives the future of dentistry and oral health, contributing to global health initiatives.

ABOUT

CE Accreditation



The Continuing Education (CE) credits available at ICDO 2024 hold significant value for participants, recognizing and affirming their dedication to continuous learning and professional growth. Earning CE credits brings numerous advantages, such as advancing one's career, upholding professional credentials, expanding knowledge base, and fostering networking opportunities. By attending ICDO 2024 and acquiring CE credits, individuals showcase their commitment to ongoing education, elevate their professional standing, and open doors to career progression. Moreover, meeting a minimum CE credit requirement is often obligatory for maintaining certifications or licenses in various fields. The ICDO 2024 Conference not only offers ample networking chances with peers and experts but also facilitates the expansion of professional connections and the cultivation of potential collaborations. Notably, each attendee will receive a total of 28 CE credits at the conference.

Table of Contents

Title: Impact of masticatory movements using dentures on brain activity as an early interventional tool to senile neuronal cognitive dysfunction	36
A Queen Alice, AIIMS, India	
Title: Clinical applications for monolithic CAD/CAM implant-retained overdentures: Current applications and future direction	37
Abdulrahman Almalki, Prince Sattam Bin Abdulaziz University, Saudi Arabia	
Title: Study design in research	38
Aditya Singh Patel, Sharad Pawar Dental College & Hospital, India	
Title: Clinical effectiveness of different types of maxillary protraction devices in cleft patient: A systematic review and network meta-analysis	39
Ahmad Hashridz Bin Ruslan, Universiti Sains Malaysia, Malaysia	
Title: Chairside digital denture	41
Ahmed Mohamed Hebeshi, Prosthodontist at Egyptian Ministry of Health, Egypt	
Title: Comparative evaluation of antimicrobial effect of salivary Adrenomedullin (ADM) in children with Early Childhood Caries (ECC) and the caries free children	42
Amitha H.A, VS Dental College and Hospital, India	
Title: Clinical applications of ozone in dentistry	20
Andrea Scribante & Maurizio Pascadopoli, University of Pavia, Italy	
Title: Role of pulp volume method in assessment of age and gender in Lucknow, India - An observational study	44
Anurag Tripathi, George Medical University, India	
Title: The future of dentistry: Artificial intelligence	45
Arshia Rashid Baig, Sharad Pawar Dental College and Hospital, India	
Title: Secrets to getting paid faster: From mastering claim submissions to winning appeals	46
Ashley Bond, Chief Dental Billing Officer at Wisdom, United States	
Title: Clinical diagnosis and management of dentin hypersensitivity, practical suggestions for its diagnosis and management	21
David Gillam, Queen Mary University of London, United Kingdom	
Title: Assessment of the frequency of use and effectiveness of CBCT in surgical extractions or expose and bond procedures of impacted teeth in orthodontic treatment	48
David Williams, OMFS Musgrove Park Hospital, United Kingdom	
Title: Can malocclusion and respiratory disorders impact school performance? Results of a cross-sectional study	50
Debora do Canto Assaf, Universidade Franciscana, Brazil	

Title: TMJ – Tipping point of musculoskeletal system	51
Deep Shah, Molar Bear Dental Studio, India	
Title: Demystifying frenectomies: What, When, How	53
Duc-Minh Lam-Do, Montreal Tongue-Tie Institute, Canada	
Title: Facial asymmetry: A challenge to the dentist	54
Eduardo Rubio, Argentinian Catholic University, Argentina	
Title: Odontogenic orbital cellulitis: Diagnosis and management	55
Elishan Aruliah, Prince of Wales Hospital, Australia	
Title: Hydraulic condensation in endodontics	57
Emmanuel Samson, Government Medical college Miraj, India	
Title: The oral/systemic link demystified: Tell your mom you are a real doctor!	22
Fay Goldstep, International Speaker, Canada	
Title: Social media impact on self-perceived oral health practices among patients visiting tertiary care hospital in India	58
Gaurav Mishra, King George's Medical University, India	
Title: Current trends in the management of osteoradionecrosis with pentoxifylline and tocopherol	59
Gaurav Vishal, Prathima Cancer Institute, India	
Title: BCS: The king of dental implants	23
Hariharan Ramakrishnan, Thai Moogambigai Dental College and Hospital, Dr MGR Educational and Research Institute, India	
Title: Prevention in Medicine, especially in dentistry in the Netherlands	25
Jaap Boehmer, Rijnstate Hospital, Netherlands	
Title: Soft tissue reconstructive approach to peri-implant defects as a therapeutic and preventive option	61
Jackson Martins Kalinoski, Implants Clinica Odontologica, Brazil	
Title: Long term evaluation of dimensional stability of guided bone regeneration in defects class 2 and 3	62
Jamal Hassan Assaf, Federal University of Santa Maria and Private Clinic, Brazil	
Title: Effects of the association between hydroxyapatite and photobiomodulation on bone regeneration	63
Jessica de Oliveira Rossi, University of São Paulo, Brazil	
Title: Cultivating psychological safety in dental education and research strategies for professional growth & patient care	65
Jonathan Bonanno, Chief Psycho & CE Computech, United States	
Title: Stem cells: Hypes & hopes in regeneration and repair	66
Kanika Gupta Verma, Department of Pediatric and Preventive Dentistry, India	

Title: AI-Powered pathology detection: The future of medical diagnostics	67
Khoa Le, Eyes of AI, Chief Executive Officer, Australia	
Title: Unmasking the impact of nutritional & airway deficiencies	27
Lacy Walker, Shared Hygiene, LLC, Germany	
Title: To present an innovative way to conventional techniques of reconstruction of the middle third of the face with a microvascularized fibular flap	26
Laurindo Moacir Sassi, Erasto Gaertner Hospital and Mackenzie Evangelical University Hospital, Brazil	
Title: Diagnosis and management of chronic facial pain	69
Lujain AlSahman, King Khalid University, Saudi Arabia	
Title: Brain abscess following professional dental cleaning; A case report	70
Luke Chung, Royal Darwin Hospital, Australia	
Title: Exploring the tactile sensation of haptics in periodontal simulators: Are you ready!	71
Madhulika Banerjee, Vishnu Dental College, India	
Title: Effect of hydroalcoholic extract of Camellia sinensis on the viability and apoptosis of oral squamous cell carcinoma cell line	74
Maedeh Ghorbanpour, Islamic Azad University, Iran (Islamic Republic of)	
Title: Beyond the drill: From struggle to success	28
Maggie Augustyn, Untangle Me, LLC, United States	
Title: Prosthetic systems for complex oral rehabilitation on dental implants with various maintenance and stability elements	72
Maria Bolat, Grigore T. Popa, Romania	
Title: The effects of mandibular wisdom teeth on angle and condyle fractures	76
Mark Rozenbilds, Royal Darwin Hospital, Australia	
Title: Lateral rectus palsy after removal of mandibular metal-work	77
Mark Rozenbilds, Royal Darwin Hospital, Australia	
Title: Influence of periodontal therapy on chemical and mineralogical characteristics of root surface	79
Mihajlo Petrovski, Goce Delcev University, North Macedonia	
Title: Analyzing and strategic utilization of supportive structures for obturator prostheses following maxillectomy	81
Mohamed Azhari, International University of Rabat, Morocco	
Title: Custom-made, Zirconia root-analogue implant: A case report	83
Ozair Erfan, Herat University, Afghanistan	

Title: Methods of root canal obturation and most common mistakes	84
Pantelejmon Trpchevski, Medical University – Varna, Bulgaria	
Title: Prevalence of tobacco use and oral precancerous lesions among the public transport workers and employees in Western Maharashtra (India): A cross-sectional analytical study	86
Pradnya S Jadhav, Government Dental College & Hospital, India	
Title: Dealing with peri-implantitis: An insight to various treatment regimens	29
Preetinder Singh, Academy of Oral Surgery, United States	
Title: Effective utilization of dental informatics in dentistry	88
Ramesh Nagarajappa, The Oxford Dental College, India	
Title: The synergy in functional load of short dental implants and fiber reinforced substructures in free fibula transplants	30
Rolf Ewers, University of Vienna, Austria	
Title: Avulsion of permanent tooth: A case report and new guidelines for traumatic injuries	89
Sachin Shashikant Metkari, Nair Hospital Dental College, India	
Title: Secrets of successful orthodontic treatment	90
Salah Mohammed Hafedh, CEO of Genesis Medical & Cosmetics, Yemen	
Title: Tips and tricks of ceramic veneers	92
Shveta Setia Thareja, SGT University, India	
Title: Immediate molar implant surgery	31
Steven J Traub, American Institute of Oral Biology, United States	
Title: Modern Temporomandibular Joint (TMJ) surgery	94
Steven J Traub, American Institute of Oral Biology, United States	
Title: Facial trauma 2024	95
Steven J Traub, American Institute of Oral Biology, United States	
Title: Primary molars with enamel defects in cleft lip and/or palate patients: A multicentre evaluation	96
Teslimat Ajeigbe, Alder Hey Children’s Hospital, United Kingdom	
Title: Retaining innocent smiles: Oral health promotion through health education	97
Vijay Kumar S, Amrita Vishwa Vidyapeetham, India	
Title: Diagnosis and management of burning mouth syndrome	32
Yasser Khaled, Marquette University, United States	
Title: A comparative study of the performance of wireless implantable implants in the head and neck area	98
Yeganeh Arian, Kerman Medical University, Iran (Islamic Republic of)	

Title: Effects of self-perceived oral health and stress levels on subjective oral symptoms lifestyle of University students in South Korea	101
YuYeon Jung, Catholic Kwandong University, South Korea	
Title: Effect of lifestyle habits and periodontal disease on metabolic syndrome in South Korean adults	99
YuYeon Jung, Catholic Kwandong University, South Korea	
Title: Models to assess microbial dysbiosis and oral microbiome transplantation	33
Zvi G Loewy, New York Medical College, United States	

SEPT

02-04

9th Edition of International Conference on

Dentistry and Oral Health

**KEYNOTE
PRESENTATIONS**



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Influence of periodontal therapy on chemical and mineralogical characteristics of root surface

Introduction: Dental cementum is an avascular and non-innervated mineralized tissue covering the root surface that is continuously and slowly created throughout life. The distribution of minerals and different chemical elements in mature dental cementum shows great variability, and changes in chemical and mineralogical characteristics also occur during the implementation of different therapeutic procedures in periodontology.

Aim: This research was to compare the chemical and mineralogical characteristics after performing three different therapeutic procedures.

Material and Method: The examined sample included a total number of 60 teeth in which there was an indication for extraction. All extracted teeth that were part of the sample had stage III and IV of periodontal disease. The total number of teeth that met the criteria for participation in this research were divided into three groups of 20 teeth, according to which of the performed therapeutic procedures was applied: (1) Group I: Teeth that have undergone a therapeutic procedure including usage of ultrasonic instruments and manual instruments. All of them were chemically analysed using ICP with mass spectrophotometry and X-ray diffractometry; (2) Group II: Consisted of teeth in which, after ultrasonic instrumentation, laser-assisted treatment with Er: YAG laser were used that were chemically analysed using ICP with mass spectrophotometry and X-ray diffractometry and (3) Control group: Impacted teeth with an indication for extraction or teeth that are for extraction for a non-periodontal reason. These teeth were chemically analysed using ICP with mass spectrophotometry and X-ray diffractometry.

Results: There was a reduction in the calcium present in the treated root surfaces, and the calcium loss was greater in the laser treated root surfaces. There were changes in the ratio of organic and inorganic constituents of cementum observed in root surfaces of treated teeth compared to root surfaces obtained from healthy teeth. The greatest loss of inorganic components in the cement structure was observed in surfaces treated with conventional periodontal therapy. There was a significantly closer ratio of the organic and inorganic part of cementum on root surfaces obtained from laser-treated teeth and healthy teeth. There were insignificant changes in the mineralogical composition of the cementum observed in treated teeth compared to root surfaces obtained from healthy teeth. Root surfaces originating from healthy teeth were dominated by hydroxyl-apatite and carbonate apatite, root surfaces treated with conventional periodontal therapy are dominated by amorphous apatite (indicating loss of the proper crystal structure of apatite), while root surfaces from teeth treated with laser-assisted therapy, apart from hydroxyl apatite, portlandite (calcium hydroxide with a grid similar to brushite) also occurs.

Conclusion: Changes in the chemical characteristics of the root surfaces occur during the application of any therapeutic procedure in relation to the surfaces of healthy teeth. There are numerous chemical changes observed in untreated periodontal affected root surfaces compared to root surfaces obtained from healthy teeth.

Audience Take Away Notes

- Authors want to present the effects of conventional and laser-assisted periodontal therapy on the chemical and mineralogical characteristics of the dental cementum covering the root surfaces of teeth affected by chronic periodontitis. All these data are compared with those of untreated healthy root surfaces which are assumed which are considered the most adequate, because they originate from unaffected teeth.
- All findings that will be presented indicate that there is essential importance of the chemical and mineralogical characteristics of the root surface and it can be noted that the application of laser-assisted periodontal treatment can contribute to the design of an appropriate biomimetic root surface that is most important for adequate process of healing.
- Based on this, the obtained results will make a scientific contribution in the field of modern therapy of periodontal disease and will confirm the scientific findings, which indicate that the use of laser light gives greater benefit on the healing process of the periodontium after the therapy.
- Presented results and the consequential conclusions of this presentation are important both for the clinical dentists and for the scientific knowledge for the effect of different therapeutic modalities in the periodontology.
- At the end, it is can be noted that laser-assisted periodontal treatment has numerous advantages over conventional therapy. This gives a significant scientific contribution that will have significance in everyday dental practice.
- This presentation is also aimed for avoiding all dilemmas that dental clinicians have about the dental lasers, their superiority and opportunities.
- Nowadays, all technological advances and enhancements have increased the possibilities of available laser systems in everyday dental practice. Among them, the laser devices that produce Er: YAG laser beams seem to have most promising use and are considered to become an indispensable tool in modern dentistry.

Biography

Ass. Prof. Mihajlo Petrovski, DDM, PhD, in December 2013, Dr. Mihajlo Petrovski become Master of Dental Sciences (Oral health in institutionalized elderly). In November 2021, become specialist in periodontology. He enrolls PhD studies in the academic year 2017/2018 in the field of Basic and Clinical Research in Dental Medicine (PhD thesis Analysis of micro-topographic and chemical characteristics of the root surface of the tooth after conventional and laser assisted periodontal therapy) and in 2021he becomes PhD in Dental Sciences. In May 2017, Dr. Mihajlo Petrovski becomes teaching assistant at the Faculty of Medical Sciences at University Goce Delchev in Stip.